

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT
TRANSLATION

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference 04NPCT011		FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/JP2004/019589	International filing date (day/month/year) 28.12.2004	Priority date (day/month/year) 08.01.2004
International Patent Classification (IPC) or both national classification and IPC		
Applicant NEC CORPORATION		

<p>1. This opinion contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>
<p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to Form PCT/ISA/220.</p>

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

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International application No.
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Box No. I	Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. <input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material <input type="checkbox"/> a sequence listing <input type="checkbox"/> table(s) related to the sequence listing b. format of material <input type="checkbox"/> in written format <input type="checkbox"/> in computer readable form c. time of filing/furnishing <input type="checkbox"/> contained in the international application as filed. <input type="checkbox"/> filed together with the international application in computer readable form. <input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.
3.	<input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-17	YES
	Claims		NO
Inventive step (IS)	Claims	1-17	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-17	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: M.Tamura et al., Secondary Defects in 1-10 keV As- and BF₂-implanted Si, 1998 International Conference on Ion Implantation Technology Proceedings, pp. 744-747</p> <p>Document 2: H.C. -H. Wang et al., Substrate-Strained Silicon Technology: Process Integration, IEDM 2003, pp. 61-64</p> <p>Document 3: JP 2000-286418 A (Hitachi, Ltd.), 13 October 2000, Full text; all drawings</p> <p>Document 4: JP 10-270685 A (Sony Corp.), 09 October 1998, Full text; all drawings</p> <p>Document 5: US 2003/0227029 A1 (AMBERWAVE SYSTEMS CORPORATION), 11 December 2003, Full text; all drawings</p> <p>Document 6: JP 2001-217433 A (Samsung Electronics Co., Ltd.), 10 August 2001, Full text; all drawings</p> <p>Document 7: J.L. Hoyt et al., Strained Silicon MOSFET Technology, IEDM 2002, pp. 23-26</p> <p>Document 8: JP 10-106966 A (Nippon Steel Corp.), 24 April 1998, Full text; all drawings</p> <p>Document 9: JP 10-214906 A (Matsushita Electric Industrial Co., Ltd.), 11 August 1998, Paragraph 0154</p>			
Claims 1-17			
<p>The inventions of claims 1-17 are neither described in any of the documents cited in the ISR nor do they appear to be obvious to a person skilled in the art.</p>			

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